10/552013 JC12 Rec'd PCT/PT 30 SEP 2005

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sut	ostitute for form 1449A/B/P	то		Complete If Known		
				Application Number	Not Yet Assigned	
11	NFORMATIO	N DI	SCLOSURE	Filing Date	Concurrently Herewith	
S	TATEMENT	BY A	APPLICANT	First Named Inventor	Andreas Renz	
				Art Unit	N/A	
	(Use as many sh	e ets e	s necessary)	Examiner Name	Not Yet Assigned	
heet	1	of	3	Attorney Docket Number	13478-00002-US	
	L	1	<u> </u>			

			U.S. PA	TENT DOCUMENTS	
Examine	, _{Cit}	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No		MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
/E.M	/ AA	US-5,614,393	03-25-1997	Thomas et al.	
	AB	US-5,968,791	10-19-1999	Davies et al.	
17	AC	US-6,043,411	03-28-2000	Nishizawa et al.	
W	AD	US-2004/0111763	06-10-2004	Heinz et al.	

Γ				FOR	EIGN PATENT DOCUMENTS	 	
Exami Initials	• .	Cite No.1	Foreign Patent Document Country Code ³ - Number ⁴ -Kind Code ⁶ (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	10
Æ.	<u>M./</u>	BA	WO-91/13972	09-19-1991	Calgene Inc.		
	•	BB	WO-93/06712	04-15-1993	Rhone-Poulenc Agrochimie		
		ВС	WO-93/10241	05-27-1993	Calgene Inc.		
		BD	WO-93/11245	06-10-1993	E. I. duPont de Nemours And Company	·	
		BE	EP-0 550 162	07-07-1993	Pioneer Hi-Bred International,		
		BF	WO-94/11516	05-26-1994	E. I. duPont de Nemours And Company		
		BG	WO-94/13814	06-23-1994	Nickerson Biocem Limited		
		вн	WO-94/18337		Monsanto Company & Michigan State University		
		BI	WO-95/18222	07-06-1995	Kirin Beer KK		See US 6.043,411
		BJ	WO-95/27791		Calgene Inc.		33333333
		BK	WO-96/21022	07-11-1996	Rhone-Poulenc Agrochimie		
		BL	WO-96/24674	08-15-1996	Gene Shears Pty. Limited		
		ВМ	WO-97/21340	06-19-1997	Cargill, Inc.		
		BN	WO-97/30582	08-28-1997	Carnegie Institution Of Washington & Monsanto Company		
		ВО	EP-0 794 250	09-10-1997	Soremartec S.A. & Ferrero S.p.A.		
		BP	WO-98/27203	06-25-1998	Kosan Biosciences		
		BQ	WO-98/46764	10-22-1998	Calgene LLC & Abbott Laboratories		
		BR	WO-98/46776	10-22-1998	Calgene LLC		
		BS	WO-98/46763	10-22-1998	Calgene LLC & Abbott Laboratories		
		ВТ	WO-98/46765	10-22-1998	Calgene LLC & Abbott Laboratories		
	\neg	BU	WO-98/54303	12-03-1998	Cell Therapeutics, Inc.		
		BV	WO-98/54302	12-03-1998	Icos Corporation		
			WO-98/55625	12-10-1998	Calgene LLC		
7	7		WO-98/55632	12-10-1998	Calgene LLC	-	
T	\neg	BY	WO-98/55631		Calgene LLC		

Examiner Signature	/Elizabeth Mcelwain/	Date Considered	01/20/2008
418497			

JC12 Rec'd PCT/PT 3 0 SEP 2005 PTO/SB/08a/b (07-05) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE respond to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons

Substit	tute for form 1449A	/B/PTO		Complete If Known		
				Application Number	Not Yet Assigned	
INF	FORMATI	ON DISC	LOSURE	Filing Date	Concurrently Herewith	
ST	ATEMEN	T BY AP	PLICANT	First Named Inventor	Andreas Renz	
				Art Unit	N/A	
	(Use as many she ets as necess ary)			Examiner Name	Not Yet Assigned	
Sheet	2	of	3	Attorney Docket Number	13478-00002-US	

	.M./	BZ	WO-99/27111	06-03-1999	University of Bristol	
	L	BA1	WO-99/64616	12-16-1999	Abbott Laboratories	
			WO-00/18889	04-06-2000	Calgene LLC	
		BC1	WO-00/21557	04-20-2000	Merck & Co., Inc.	
			WO-00/42195	07-20-2000	Calgene LLC	
			WO-01/59128	08-16-2001	BASF Aktiengesellschaft	See US 2004/0111763
		BF1	WO-02/072742	09-19-2002	Societe Des Produits Nestle	
\vdash	/ -	BG1	DE-102 19 203	11-13-2003	S.A. BASF Plant Science GmbH	Soo Abstract
'ــــــا		I DO I	DE-102 19 203	111-13-2003	BASE Plant Science GmbH	See Abstract

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. 'Applicants unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspic.gov/ or MPEP 901.04. ³ Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁸ Kind of document by the appropriate symbots as indicated on the document under WIPO Standard ST.18 if possible. ⁶ Applicant is to place a check mark here if English language Transtation is attached.

		NON PATENT LITERATURE DOCUMENTS				
Examiner Cite Initials No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city				
/E.M	CA	Phospholipid", The Journal of Biological Chemistry 276(29) (2001), pp. 26745-26752.				
	СВ	ZOU, J. et al., "The Arabidopsis thaliana TAG1Mutant Has a Mutation in a Diacylglycerol Acyltransferase Gene", The Plant Journal 19(6) (1999), pp. 645-653.				
	CC	WANG, X. M. et al., "Biosynthesis and Regulation of Linolenic Acid In Higher Plants", Plant Physiol. Biochem., 26(6) 1988, pp. 777-792.				
	CD	ZANK, T. K. et al., "Cloning and Functional Expression of the First Plant Fatty Acid Elongase Specific For Δ6-Polyunsaturated Fatty Acids", Biochemical Society Transactions 28(6) (2000), pp. 654-658.				
	CE	TUMANEY, A. W. et al., "Synthesis of Azidophospholipids and Labeling of Lysophosphatidylcholine Acyltransferase from Developing Soybean Cotyledons", Biochimica et Biophysica Acta 1439 (1999), pp. 47-56.				
	CF	STYMNE, S. et al., "Evidence for the Reversibility of the Acyl-CoA: Lysophosphatidylcholine Acyltransferase in Microsomal Preparations from Developing Safflower (Carthamus tinctorius L.) Cotyledons and Rat Liver", Biochem. J. 223 (1984), pp. 305-314.	-			
	CG	STUKEY, J. E. et al., "The OLE1 Gene of Saccharomyces cerevisiae Encodes the $\Delta 9$ Fatty Acid Desaturase and Can Be Functionally Replaced by the Rat Stearoyl-CoA Desaturase Gene", The Journal of Biological Chemistry 265(33) (1990), pp. 20144-20149.	_			
	СН	CASES, S. et al., "Identification of a Gene Encoding an Acyl CoA: Diacylglycerol Acyltransferase, A Key Enzyme in Triacylglycerol Synthesis", Proc. Natl. Acad. Sci. USA 95 (1998), pp. 13018-13023.				
_	CI	MISHRA, S. et al., "Purification and Characterization of Thiol-Reagent-Sensitive Glycerol-3- Phosphate Acyltransferase from the Membrane Fraction of an Oleaginous Fungus", Biochem. J. 355 (2001), pp. 315-322.				
	CĴ	VAZHAPPILLY, R. et al., "Heterotrophic Production Potential of Omega-3 Polyunsaturated Fatty Acids by Microalgae and Algae-like Microorganisms", Botanica Marina 41 (1998), pp. 553-558.				
V	СК	OELKERS, P. et al., "A Lecithin Cholesterol Acyltransferase-like Gene Mediates Diacylglycerol Esterification in Yeast", The Journal of Biological Chemistry, 275(21) (2000), pp. 15609-15612.				

Examiner		10-4-	
	/Elizabeth Mcelwain/	Date	01/20/2008
Signature	/ Clizabeti i Micelwali /	Considered	0112012000
418497			

JC12 Rec'd PCT/PTC 3 0 SEP 2005

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE espond to a collection of information unless it contains a valid OMB control number.

Substitut	e for form 1449A	/B/PTO		Complete If Known		
				Application Number	Not Yet Assigned	
INF	ORMATI	ON DISC	CLOSURE	Filing Date	Concurrently Herewith	
STA	STATEMENT BY APPLICANT			First Named Inventor	Andreas Renz	
				Art Unit	N/A	
	(Use as many she ets as necessary)			Examiner Name	Not Yet Assigned	
Sheet	3	of	3	Attorney Docket Number	13478-00002-US	

 	<u> </u>	MOLEAN LAND TO THE
/E.M./	CL	MCLEAN, J. et al., "Cloning and Expression of Human Lecithin-Cholesterol Acyltransferase cDNA", Proc. Natl. Acad. Sci. USA, 83 (1986), pp. 2335-2339.
	СМ	WADA, H. et al., "Enhancement of Chilling Tolerance of a Cyanobacterium by Genetic Manipulation of Fatty Acid Desaturation", Nature 347 (1990), pp. 200-203.
	CN	STYMNE, S. et al., "Triacylglycerol Biosynthesis", Chapter 8 from The Biochemistry of Plants, A Comprehensive Treatise, Volume 9 (1987), Stump, P. K. Ed., Academic Press, NY, pp. 175-214.
	СО	FRENTZEN; M., "Acyltransferases from Basic Science to Modified Seed Oils", Fett/Lipid 100(4-5) (1998), pp. 161-166.
	CP	Database EMBL, "Vicia faba putative glycerol-3-phosphate acyltransferase (GPAT) mRNA", Database Accession No. AF090734, September 23, 1998.
	CQ	HOBBS, D. H. et al., "Cloning of a cDNA Encoding Diacylglycerol Acyltransferase from Arabidopsis thaliana and Its Functional Expression", FEBS Letters 452 (1999), pp. 145-149.
	CR	HUANG, Y-S. et al., "Cloning of Δ12- and Δ6-Desaturases from <i>Mortierella alpina</i> and Recombinant Production of γ-Linolenic Acid in <i>Saccharomyces cerevisiae</i> ", Lipids 34(7) (1999), pp. 649-659.
	CS	LANDS, W. E. M., "Metabolism of Glycerolipids", The Journal of Biological Chemistry, 235(8) (1960), pp. 2233-2237.
	CT	METZ, J. G. et al., "Production of Polyunsaturated Fatty Acids by Polyketide Synthases in Both Prokaryotes and Eukaryotes", Science 293 (2001), pp. 290-293.
	CU	JAKO, C. et al., "Seed-Specific Over-Expression of an Arabidopsis cDNA Encoding a Diacylglycerol Acyltransferase Enhances Seed oil Content and Seed Weight", Plant Physiology, 126 (2001), pp. 861-874.
	CV	TOTANI, N. et al., "The Filamentous Fungus Mortierella alpina, High in Arachidonic Acid", Lipids 22(12) (1987), pp. 1060-1062.
	CW	KNUTZON, D. S. et al., "Cloning of a Coconut Endosperm cDNA Encoding a 1-Acyl-sn-Glycerl-3-Phosphate Acyltransferase That Accepts Medium-Chain-Length Substrates", Plant Physiol. 109 (1995), pp. 999-1006.
	CX	ALONSO, D. L. et al., "Plants as 'Chemical Factories' for the Production of Polyunsaturated Fatty Acids", Biotechnology Advances 18 (2000), pp. 481-497.
	CY	LASSNER, M. W. et al., "Lysophosphatidic Acid Acyltransferase from Meadowfoam Mediates Insertion of Erucic Acid at the sn-2 Position of Triacylglycerol in Transgenic Rapeseed Oil", Plant Physiol 109 (1995), pp. 1389-1394.
	CZ	AKIMOTO, M. et al., "Carbon Dioxide Fixation and Polyunsaturated Fatty Acid Production by the Red Alga <i>Porphyridium Cruentum</i> ", Applied Biochemistry and Biotechnology, 73 (1998), pp. 269-278.
	CA1	SLABAS, A. R. et al., "Acyltransferases and Their Role in the Biosynthesis of Lipids- Opportunities for New Oils", J. Plant Physiol. 158 (2001), pp. 505-513.
	CB1	ABBADI, A. et al., "Transgenic Oilseeds as Sustainable Source of Nutritionally Relevant C20 and C22 Polyunsaturated Fatty Acids?", Eur. J. Lipid Sci. Technol. 103 (2001), pp. 106-113
	CC1	AKERMOUN, M. et al., "Solubilization of the Plastidial Lysophosphatidylcholine Acyltransferase from Allium porrum Leaves: Towards Plants Devoid of Eukaryotic Plastid Lipids?", Biochemical Soc. Transactions 28 (2000), pp. 713-715.
	CD1	FRASER, T., et al., "Partial purification and photoaffinity labeling of sunflower acyl-CoA: lysophosphatidylcholine acyltransferase", Biochemical Soc. Transactions 28 (2000), pp. 715-718.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	/Elizabeth Mcelwain/	Date Considered	01/20/2008
418497			